L16

2 S L15 NOT L6

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(FILE 'HOME' ENTERED AT 18:50:57 ON 07 JUL 2006)
    FILE 'CAPLUS, USPATFULL' ENTERED AT 18:51:04 ON 07 JUL 2006
         25431 S (TREAT? OR CONTACT?) (3A) SEED
L1
    FILE 'REGISTRY' ENTERED AT 18:51:32 ON 07 JUL 2006
            1 S PERMETHRIN/CN
L2
    FILE 'CAPLUS, USPATFULL' ENTERED AT 18:52:09 ON 07 JUL 2006
          8492 S PERMETHRIN OR L2
L3
L4
            35 S L3 (P) L1
            6 S L4 (P) (CORN OR MAIZE)
L5
L6
            16 S L4 AND (CORN OR MAIZE)
            10 S L6 NOT L5
L7
L8
            19 S L4 NOT L6
L9
       884967 S CORN OR MAIZE OR SOY? OR RYE OR SUNFLOWER OR SUN FLOWER OR TO
L10
       210410 S WHEAT OR BARLEY
L11
      1000667 S L9 OR L10
L12
            14 S L11 (P) L4
L13
            8 S L12 NOT L5
L14
           26 S L11 AND L4
L15
           12 S L14 NOT L12
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L13 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:627294 CAPLUS

DOCUMENT NUMBER: 125:268012

TITLE: Innovative strategy involving judicious pesticide

management to control pests of sorghum in India

AUTHOR (S): Gahukar, R. T.; Kishore, Prem

Division Entomology, Indian Agricultural Research CORPORATE SOURCE:

Institute, New Delhi, 110012, India

Journal of Entomological Research (1995), 19(4), SOURCE:

301-312

CODEN: JEREDP; ISSN: 0378-9519

PUBLISHER: Malhotra Publishing House DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

A review with 50 refs. Sorghum bicolor (L.) Moench. is the third important cereal crop after rice and wheat in

India. It is heavily ravaged by a number of key pests. At present, the

sorghum shootfly, Atherigona soccata (Rondani); stem borer, Chilo partellus (Swinhoe); sorghum midge, Contarinia sorghicola (Coquillet); and sorghum earhead bug, Calocoris angustatus Lethiery are key pests of sorghum which either individually or collectively seriously limit the productivity of newly developed cultivars. The main thrust in the control of these key pests and other pests was directed towards the use of insecticides. A large number of insecticides belonging to different groups starting from chlorinated hydrocarbons to synthetic pyrethroids were used against these pests in different formulations (dust, spray, granules, etc.) with different modes

of applications, viz., seed treatment, soil furrow application at sowing, side-dressing after crop emergence, foliar sprays and dusts, leaf whorl placement of granules, dusts and sprays, etc. Some of the insecticides used for their control are DDT, BHC, lindane, endrin,

phorate, trithion, parathion, dimethoate, phenthoate, phendol, carbaryl, monocrotophos, malathion, endosulfan, cytrolane, carbofuran, aldicarb, mephosfolan, disulfoton, sevimol, diazinon, fenitrothion, chlorpyrifos, cypermethrin, permethrin, fenvalerate, chlorfenvinphos, etc.

These included even outdated insecticides, though earlier spectacular success was achieved. Complete reliance on insecticides due to their broad spectrum biol. activity and associated risks circumvents their use. This situation has led to develop integrated pest management strategies in sorghum where each control component has to play an important role. Quantities of insecticides can be reduced to economic level by integrating their use with resistant varieties like P 311, SPV 1015, P 37, P151, E 601, biocontrol agents and cultural practices. Determination of economic

thresholds for different key pests is desirable both to realize maximum benefit of chemical control and to reduce the number of applications. Seed treatment with carbofuran (5 parts of a.i./100 parts of seed) resulted in successful control of shootfly. Two applications of endosulfan (4% dust) at 5.0 and 7.5 kg/ha used 25 and 35 days after germination were effective as also more economical than those applied 20, 30 and 40 days after germination in controlling the stem borer. With this schedule, the rate of application of endosulfan was reduced to 12.5 kg/ha from 22.5 kg/ha of com. formulation. Foliar and earhead pests were successfully controlled by applying 1 L of endosulfan in 500 to 600 L of water at 50% flowering as foliar and earhead spray. Application of insecticides at vulnerable stage of pests helps in reducing the quantity of insecticides and effectively checking the pests. Hazards of pollution, residues and effects on non-target organisms can also be avoided. Thus, the hitherto misuse or overuse of insecticides will not only be checked but will also effectively halt the ever increase of various problems associated with pesticides. In future, control programs in sorghum with proper and judicious pesticide management should provide the solution to intricate and complex problems of this crop.

A review with 50 refs. Sorghum bicolor (L.) Moench. is the third important cereal crop after rice and wheat in It is heavily ravaged by a number of key pests. At present, the sorghum shootfly, Atherigona soccata (Rondani); stem borer, Chilo partellus (Swinhoe); sorghum midge, Contarinia sorghicola (Coquillet); and sorghum earhead buq, Calocoris angustatus Lethiery are key pests of sorghum which either individually or collectively seriously limit the productivity of newly developed cultivars. The main thrust in the control of these key pests and other pests was directed towards the use of insecticides. A large number of insecticides belonging to different groups starting from chlorinated hydrocarbons to synthetic pyrethroids were used against these pests in different formulations (dust, spray, granules, etc.) with different modes of applications, viz., seed treatment, soil furrow application at sowing, side-dressing after crop emergence, foliar sprays and dusts, leaf whorl placement of granules, dusts and sprays, etc. Some of the insecticides used for their control are DDT, BHC, lindane, endrin, phorate, trithion, parathion, dimethoate, phenthoate, phendol, carbaryl, monocrotophos, malathion, endosulfan, cytrolane, carbofuran, aldicarb, mephosfolan, disulfoton, sevimol, diazinon, fenitrothion, chlorpyrifos, cypermethrin, permethrin, fenvalerate, chlorfenvinphos, etc. These included even outdated insecticides, though earlier spectacular success was achieved. Complete reliance on insecticides due to their broad spectrum biol. activity and associated risks circumvents their use. This situation has led to develop integrated pest management strategies in sorghum where each control component has to play an important role. Quantities of insecticides can be reduced to economic level by integrating their use with resistant varieties like P 311, SPV 1015, P 37, P151, E 601, biocontrol agents and cultural practices. Determination of economic

thresholds for different key pests is desirable both to realize maximum benefit of chemical control and to reduce the number of applications. Seed treatment with carbofuran (5 parts of a.i./100 parts of seed) resulted in successful control of shootfly. applications of endosulfan (4% dust) at 5.0 and 7.5 kg/ha used 25 and 35 days after germination were effective as also more economical than those applied 20, 30 and 40 days after germination in controlling the stem borer. With this schedule, the rate of application of endosulfan was reduced to 12.5 kg/ha from 22.5 kg/ha of com. formulation. Foliar and earhead pests were successfully controlled by applying 1 L of endosulfan in 500 to 600 L of water at 50% flowering as foliar and earhead spray. Application of insecticides at vulnerable stage of pests helps in reducing the quantity of insecticides and effectively checking the pests. Hazards of pollution, residues and effects on non-target organisms can also be Thus, the hitherto misuse or overuse of insecticides will not only be checked but will also effectively halt the ever increase of various problems associated with pesticides. In future, control programs in sorghum with proper and judicious pesticide management should provide the solution to intricate and complex problems of this crop.

L13 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1987:45690 CAPLUS

DOCUMENT NUMBER: 106:45690

TITLE: Chemical control of wheat bulb fly (Delia coarctata)

attacking winter wheat in eastern England, 1969-1981.

Insecticidal seed treatments

Maskell, F. E.; Gair, R.

CORPORATE SOURCE: Agric. Dev. Advis. Serv., Cambridge, CB2 2DR, UK SOURCE:

Annals of Applied Biology (1986), 109(2), 223-36

CODEN: AABIAV; ISSN: 0003-4746

DOCUMENT TYPE: Journal LANGUAGE: English

AUTHOR(S):

Dry powder, liquid and microencapsulated formulations of organophosphate and synthetic pyrethroid insecticidal seed treatments were

tested as possible alternatives to the standard organochlorine seed treatments for autumn-sown wheat in mineral and organic soils heavily infected with wheat bulb fly eggs and (subsequently) larvae. Retention of insecticides on the seed coat varied from 40 to 120% of the target dose; it was usually good when microencapsulated formulations were used. Chlorfenvinphos [470-90-6], fonofos [944-22-9], isofenphos [25311-71-1] and triazophos [24017-47-8], each applied at 2.0 g/kg seed, were phytotoxic, the symptoms varying from a slight delaying effect upon germination to an adverse effect upon grain yield. Chlorfenvinphos at 0.2-2.0 g/kg seed was consistently effective against wheat bulb fly larvae in both mineral and organic soils. Athidathion [19691-80-6] (0.8 g/kg), carbophenothion [786-19-6] (1.2 g/kg), ethion [563-12-2] (1.7 g/kg) and fonofos (microencapsulated formulations) at 1.0 or 2.0 g/kg were also effective in mineral and organic soils. Of the synthetic pyrethroids tested as seed treatments, permethrin 52645-53-1] gave excellent results in mineral soils at 1.0 g/kg or in synergized formulations at 0.12 or 0.24 g/kg but was disappointing in organic soils. In a single comparison of seed treatments applied to wheat sown early (14 Oct.) and late (20 Nov.), chlorfenvinphos was effective at both sowing dates whereas athidathion, ethion and pirimiphos-ethyl [23505-41-1] gave better results in late-sown wheat. A single trial compared deep with shallow sowing of treated seed. Most insecticides performed better on shallow-sown wheat, but chlorfenvinphos was equally effective against the pest at both sowing depths. Most insecticides restricted the nos. of larvae entering host plants but had little or no subsequent effect upon larval survival within attacked shoots. Fonofos and isofenphos, and to a lesser extent chlorfenvinphos, seed treatments addnl. killed many larvae within plant shoots. AB Dry powder, liquid and microencapsulated formulations of organophosphate and synthetic pyrethroid insecticidal seed treatments were tested as possible alternatives to the standard organochlorine seed treatments for autumn-sown wheat in mineral and organic soils heavily infected with wheat bulb fly eggs and (subsequently) larvae. Retention of insecticides on the seed coat varied from 40 to 120% of the target dose; it was usually good when microencapsulated formulations were used. Chlorfenvinphos [470-90-6], fonofos [944-22-9], isofenphos [25311-71-1] and triazophos [24017-47-8], each applied at 2.0 g/kg seed, were phytotoxic, the symptoms varying from a slight delaying effect upon germination to an adverse effect upon grain yield. Chlorfenvinphos at 0.2-2.0 g/kg seed was consistently effective against wheat bulb fly larvae in both mineral and organic soils. Athidathion [19691-80-6] (0.8 g/kg), carbophenothion [786-19-6] (1.2 g/kg), ethion [563-12-2] (1.7 g/kg) and fonofos (microencapsulated formulations) at 1.0 or 2.0 g/kg were also effective in mineral and organic soils. Of the synthetic pyrethroids tested as seed treatments, permethrin 52645-53-1] gave excellent results in mineral soils at $1\cdot 0$ g/kg or in synergized formulations at 0.12 or 0.24 g/kg but was disappointing in organic soils. In a single comparison of seed treatments applied to wheat sown early (14 Oct.) and late (20 Nov.), chlorfenvinphos was effective at both sowing dates whereas athidathion, ethion and pirimiphos-ethyl [23505-41-1] gave better results in late-sown wheat. A single trial compared deep with shallow sowing of treated seed. Most insecticides performed better on shallow-sown wheat, but chlorfenvinphos was equally effective against the pest at both sowing depths. Most insecticides restricted the nos. of larvae entering host plants but had little or no subsequent effect upon larval survival within attacked shoots. Fonofos and isofenphos, and to a lesser extent chlorfenvinphos, seed treatments addnl. killed many larvae within plant shoots. 309-00-2, Aldrin 470-90-6, Chlorfenvinphos 563-12-2, Ethion 786-19-6, Carbophenothion 944-22-9, Fonofos 19691-80-6, Athidathion

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23505-41-1, Pirimiphos-ethyl 24017-47-8, Triazophos Isofenphos 39515-41-8, Fenpropathrin 42509-80-8, Isazophos 52645-53-1, Permethrin RL: BIOL (Biological study) (wheat bulb fly control on winter wheat by seed treatment with) L13 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1985:216821 CAPLUS DOCUMENT NUMBER: 102:216821 Activity of avermectin in the laboratory and the field TITLE: against the boll weevil and Heliothis spp. on cotton and flue-cured tobacco AUTHOR (S): Wolfenbarger, D. A.; Johnson, A. W.; Herzog, G. A.; Tappan, W. B. CORPORATE SOURCE: Subtrop. Crop Insects Res. Unit, ARS, Weslaco, TX, 78596, USA SOURCE: Supplement to the Southwestern Entomologist (1985), 7, 17-26 CODEN: SSOED3; ISSN: 0277-7878 DOCUMENT TYPE: Journal LANGUAGE: English Based on LD50 values and confidence intervals, topical applications of MK-936 (avermectin) [73989-17-0] and permethrin [52645-53-1] were ca. equally toxic to larvae of the tobacco budworm, Heliothis virescens, but avermectin was somewhat less toxic to the bollworm, Heliothis zea. Avermectin was less toxic than azinphosmethyl [86-50-0] when topically applied in acetone to the boll weevil, Anthonomus grandis, but its toxicity was greatly enhanced when it was diluted in DMSO or cottonseed oil. Avermectin was equally toxic to boll weevils, whether it was topically applied to the dorsum of the thorax, the tarsus of the right front leg, or the tip of the proboscis; however, it was significantly less toxic than azinphosmethyl in all the topical application tests. In field tests, applications of avermectin to cotton, at 0.14 kg/ha, at 2- to 4-day intervals, significantly reduced the percent squares (flower buds) damaged by the boll weevil as compared to the check. Nos. of undamaged squares and bolls in plots treated with avermectin and azinphosmethyl were equal and significantly greater than those in the check. Yields of seed cotton from plots treated with these compds. were significantly greater than those from the untreated plots. Sprays of avermectin, at 0.011-0.033 kg/ha, caused significant redns. in larval populations and damage by larvae of the tobacco budworm on flue-cured tobacco. Based on LD50 values and confidence intervals, topical applications of MK-936 (avermectin) [73989-17-0] and permethrin 52645-53-1] were ca. equally toxic to larvae of the tobacco budworm, Heliothis virescens, but avermectin was somewhat less toxic to the bollworm, Heliothis zea. Avermectin was less toxic than azinphosmethyl [86-50-0] when topically applied in acetone to the boll weevil, Anthonomus grandis, but its toxicity was greatly enhanced when it was diluted in DMSO or cottonseed oil. Avermectin was equally toxic to boll weevils, whether it was topically applied to the dorsum of the thorax, the tarsus of the right front leg, or the tip of the proboscis; however, it was significantly less toxic than azinphosmethyl in all the topical application tests. In field tests, applications of avermectin to cotton, at 0.14 kg/ha, at 2- to 4-day intervals, significantly reduced the percent squares (flower buds) damaged by the boll weevil as compared to the check. Nos. of undamaged squares and bolls in plots treated with avermectin and azinphosmethyl were equal and significantly greater than those in the check. Yields of seed cotton from plots treated with these compds. were significantly greater than those from the untreated plots. Sprays of avermectin, at 0.011-0.033 kg/ha, caused significant redns. in larval populations and damage by

larvae of the tobacco budworm on flue-cured tobacco.

AB

L13 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1983:193346 CAPLUS

DOCUMENT NUMBER: 98:193346

TITLE: Control of cotton bollworms with fenvalerate in India

AUTHOR(S): Agnihothrudu, V.; Gour, T. B.

CORPORATE SOURCE: Rallis Agrochem. Res. Stn., Bangalore, 560 058, India

SOURCE: Crop Protection (1982), 1(2), 231-4

CODEN: CRPTD6; ISSN: 0261-2194

DOCUMENT TYPE: Journal LANGUAGE: English

The synthetic pyrethroid fenvalerate (I; Sumicidin 20E) [51630-58-1] was tested in 64 field trials for the control of bollworms on rainfed and irrigated cotton, and I at rates of 50-150 g/ha was tested on 15 varieties of cotton, with long, extra-long, short, and medium staples. From 2 to 9 sprays were applied at intervals of 7-30 days, depending on whether the insecticide was sprayed according to a calendar-based schedule or when needed. I was compared with conventional insecticides such as carbaryl [63-25-2], monocrotophos [6923-22-4], endosulfan [115-29-7], and phosalone [2310-17-0] and also with the synthetic pyrethroids permethrin [52645-53-1], cypermethrin [52315-07-8], and deltamethrin [52918-63-5]. The percentage of bollworm-infested plants in the I-treated plots ranged from 0 to 21.8% and in the untreated plots was ≤100%. With conventional pesticides the maximum level of infestation was 97.2%. Increases in yield of seed cotton from I-treated plots over those from plots treated with conventional pesticides were 54, 57, 67, 84, and 86% over monocrotophos, carbaryl, quinalphos [13593-03-8], phosalone and endosulfan, resp., representing increases of 791-1046 kg/ha.

AB The synthetic pyrethroid fenvalerate (I; Sumicidin 20E) [51630-58-1] was tested in 64 field trials for the control of bollworms on rainfed and irrigated cotton, and I at rates of 50-150 g/ha was tested on 15 varieties of cotton, with long, extra-long, short, and medium staples. From 2 to 9 sprays were applied at intervals of 7-30 days, depending on whether the insecticide was sprayed according to a calendar-based schedule or when needed. I was compared with conventional insecticides such as carbaryl [63-25-2], monocrotophos [6923-22-4], endosulfan [115-29-7], and phosalone [2310-17-0] and also with the synthetic pyrethroids permethrin [52645-53-1], cypermethrin [52315-07-8], and deltamethrin [52918-63-5]. The percentage of bollworm-infested plants in the I-treated plots ranged from 0 to 21.8% and in the untreated plots was ≤100%. With conventional pesticides the maximum level of infestation was 97.2%. Increases in yield of seed cotton from I-treated plots over those

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L13 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:467743 CAPLUS

DOCUMENT NUMBER: 97:67743

TITLE: Behavior of permethrin as a seed

treatment against larvae of the wheat

bulb fly (Delia coarctata Fall.)

AUTHOR(S): Gatehouse, Diana M.; Evans, David D.; Griffiths, David

C.; Scott, Geoffrey C.

CORPORATE SOURCE: Plant Prot. Div., ICI Ltd., Bracknell, RG12 6EY, UK

SOURCE: Pesticide Science (1982), 13(2), 109-18

restricte science (1902), 13(2), 109

CODEN: PSSCBG; ISSN: 0031-613X

DOCUMENT TYPE: Journal LANGUAGE: English

AB permethrin [52645-53-1], Applied as a seed

treatment to winter wheat, was sufficiently stable to

control wheat bulb fly larvae. The largest decrease in attack

by the larvae, compared with control, was in shallow-sown (2.5 cm), rather than deep-sown (7.5 cm) treatments. Expts. to study the distribution of the compound in the plant and soil, after its application as a seed treatment, showed that in shallow-sown treatments, 10-15% of the residue in the plant could be detected in the bulb, whereas in deep-sown treatments, only 2-3% could be detected in the bulb. The bulk of this residue, 142 days after planting, was the parent material, indicating that, at low soil temps., permethrin was degraded very slowly. Thus, the ability of permethrin to decrease attack by wheat bulb fly larvae may be explained by the stability of the compound at low temps. and its movement into the outer tissues or the bulb, where the larvae enter the wheat plant. The failure of permethrin to protect plants from larval attack when the seeds are deep-sown can be explained by the very small amts. of insecticide in the bulb, and the distance of the bulb from the seed. Behavior of permethrin as a seed treatment against larvae of the wheat bulb fly (Delia coarctata Fall.) permethrin [52645-53-1], Applied as a seed treatment to winter wheat, was sufficiently stable to control wheat bulb fly larvae. The largest decrease in attack by the larvae, compared with control, was in shallow-sown (2.5 cm), rather than deep-sown (7.5 cm) treatments. Expts. to study the distribution of the compound in the plant and soil, after its application as a seed treatment, showed that in shallow-sown treatments, 10-15% of the residue in the plant could be detected in the bulb, whereas in deep-sown treatments, only 2-3% could be detected in the bulb. The bulk of this residue, 142 days after planting, was the parent material, indicating that, at low soil temps., permethrin was degraded very slowly. Thus, the ability of permethrin to decrease attack by wheat bulb fly larvae may be explained by the stability of the compound at low temps. and its movement into the outer tissues or the bulb, where the larvae enter the wheat plant. The failure of permethrin to protect plants from larval attack when the seeds are deep-sown can be explained by the very small amts. of insecticide in the bulb, and the distance of the bulb from the seed. permethrin seed treatment Delia larva; wheat seed permethrin treatment Hylemya coarctata (permethrin effectiveness against larva of, in wheat seed treatment) (permethrin in treatment of seed of, wheat bulb fly larva control by) (permethrin in treatment of, of wheat, wheat bulb fly larva control by) 52645-53-1 RL: BIOL (Biological study) (in wheat seed treatment, wheat bulb fly larva control by) L13 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1982:419001 CAPLUS DOCUMENT NUMBER: 97:19001 TITLE: Experimental seed treatments for the control of wheat bulb fly and slugs AUTHOR(S): Scott, G. C. Rothamsted Exp. Stn., Harpenden/Herts., AL5 2JQ, UK A CORPORATE SOURCE: SOURCE: British Crop Protection Conference--Pests and Diseases, Proceedings (1981), 11th(2), 441-8 CODEN: PBCDDQ; ISSN: 0144-1612 DOCUMENT TYPE: Journal LANGUAGE: English

Of 12 exptl. pyrethroid seed treatments tested for

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control of wheat bulb fly (Delia coarctata) in small plots of winter wheat, permethrin [52645-53-1] cypermethrin [52315-07-8], and NRDC 170 [55667-46-4] were the most effective. Permethrin performance was improved by the addition of a sticker, Me cellulose, or surfactant, Me benzoate. Permethrin remained effective at rates ≥0.00625%/weight of seed in peaty loam, but not in clay loam soils. However, its effectiveness was greatly diminished by deep sowing. Yields from 11 trials showed that permethrin was at least as effective as chlorfenvinphos [470-90-6]. Of 12 other materials tested in small plots, microencapsulated ethyl parathion [56-38-2] and microencapsulated, [944-22-9] gave good results. In laboratory tests to exam. exptl. seed treatments for controlling slugs (Deroceras reticulatum) in winter wheat, effective compds. related to [1689-83-4] or nereistoxin are described. Of 12 exptl. pyrethroid seed treatments tested for AB control of wheat bulb fly (Delia coarctata) in small plots of winter wheat, permethrin [52645-53-1] cypermethrin [52315-07-8], and NRDC 170 [55667-46-4] were the most effective. Permethrin performance was improved by the addition of a sticker, Me cellulose, or surfactant, Me benzoate. Permethrin remained effective at rates ≥0.00625%/weight of seed in peaty loam, but not in clay loam soils. However, its effectiveness was greatly diminished by deep sowing. Yields from 11 trials showed that permethrin was at least as effective as chlorfenvinphos [470-90-6]. Of 12 other materials tested in small plots, microencapsulated ethyl parathion [56-38-2] and microencapsulated, fonofos [944-22-9] gave good results. In laboratory tests to exam. exptl. seed treatments for controlling slugs (Deroceras reticulatum) in winter wheat, effective compds. related to ioxynil [1689-83-4] or nereistoxin are described. L13 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1979:450947 CAPLUS DOCUMENT NUMBER: 91:50947 TITLE: Experiments with fungicides and insecticides in agricultural crops 1977

AUTHOR (S):

SOURCE:

Hansen, Knud E.

CORPORATE SOURCE:

Afproevnings Afd., Statens Plantepatol. Forsoeg, Den.

Tidsskrift for Planteavl (1978), 82(5), 571-86 CODEN: TPLAAV; ISSN: 0040-7135

Journal

DOCUMENT TYPE:

Danish

LANGUAGE: AΒ Results from trials with 38 fungicides and 6 insecticides with cereals and other crops were reported. In field and greenhouse expts., barley leaf stripe (caused by Drechslera graminae) was controlled by seed treatment with tillantin S [22577-66-8], imazalil [35554-44-0], panoctine plus [68315-78-6], and maneb [12427-38-2] at 4 dosages (1/4-2-fold standard). EL-228-10 and EL-228-7.5 also gave good results in small doses. Wheat bunt (caused by Tilletia caries) was controlled by seed treatment with Delsene 30 FL [10605-21-7] and BAS 35001 F [52080-81-6]. Stripe smut of rye (caused by Urocytes ooculata) was controlled by these compds., EL-228 [63284-71-9] bfn 7466 [67381-66-2], and Terra-Coat Zn 2055 [70746-91-7]. Barley eyespot (caused by Cercosporella herpotrichlorides) was controlled by Benlate [17804-35-2] but the yield was not increased. Powdery mildew (Erysiphe graminis) was controlled in wheat and brown rust (Puccina hordei) in barley by Bayleton [43121-43-3] formulation with yield increases. Cutworms (Scotia segetum) were better controlled in a variety of crops with Nexion [2104-96-3] and Orthene [30560-19-1] than with folithion [122-14-5]. Multiple sprayings with these compds. and with pyrethroids Sumicidin [51630-58-1], Ambush [52645-53-1], and Tamaron [10265-92-6] gave the best results.

Results from trials with 38 fungicides and 6 insecticides with cereals and AB

other crops were reported. In field and greenhouse expts., barley leaf stripe (caused by Drechslera graminae) was controlled by seed treatment with tillantin S [22577-66-8], imazalil [35554-44-0], panoctine plus [68315-78-6], and maneb [12427-38-2] at 4 dosages (1/4-2-fold standard). EL-228-10 and EL-228-7.5 also gave good results in small doses. Wheat bunt (caused by Tilletia caries) was controlled by seed treatment with Delsene 30 FL [10605-21-7] and BAS 35001 F [52080-81-6]. Stripe smut of rye (caused by Urocytes ooculata) was controlled by these compds., EL-228 [63284-71-9] bfn 7466 [67381-66-2], and Terra-Coat Zn 2055 [70746-91-7]. Barley eyespot (caused by Cercosporella herpotrichlorides) was controlled by Benlate [17804-35-2] but the yield was not increased. Powdery mildew (Erysiphe graminis) was controlled in wheat and brown rust (Puccina hordei) in barley by Bayleton [43121-43-3] formulation with yield increases. Cutworms (Scotia segetum) were better controlled in a variety of crops with Nexion [2104-96-3] and Orthene [30560-19-1] than with folithion [122-14-5]. Multiple sprayings with these compds. and with pyrethroids Sumicidin [51630-58-1], Ambush [52645-53-1], and Tamaron [10265-92-6] gave the best results.

L13 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

1977:562725 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 87:162725

The effectiveness of pyrethroid seed treatment against TITLE:

soil pests of cereals

Griffiths, David C. AUTHOR (S):

CORPORATE SOURCE: Dep. Insectic. Fungic., Rothamsted Exp. Stn.,

Harpenden, UK

Pesticide Science (1977), 8(3), 258-63 SOURCE:

CODEN: PSSCBG; ISSN: 0031-613X

DOCUMENT TYPE:

Journal English

LANGUAGE: Of 9 pyrethroids tested as seed treatments,

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